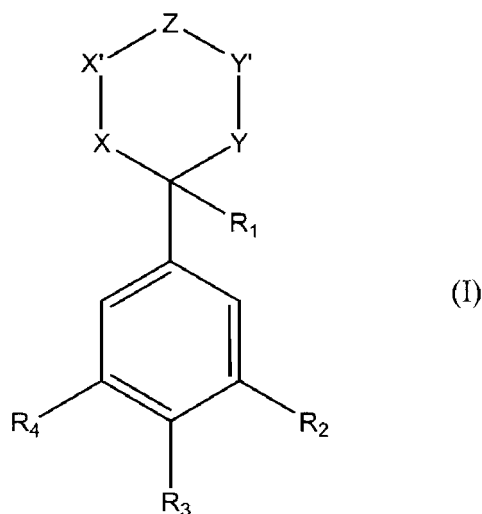


Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently Amended) A compound of formula (I), or a pharmaceutically acceptable salt or prodrug thereof



wherein X and X' are independently selected from taken together form $\text{--C(R}_5\text{)}_2\text{--O}$, --S-- , $\text{N(R}_5\text{)}$, or taken together form $\text{--C(R}_5\text{)=C(R}_5\text{)--}$, $\text{--C(R}_5\text{)=N--}$, $\text{N=C(R}_5\text{)--}$, $\text{N(R}_5\text{)N(R}_5\text{)}$ or N=N-- ;

Y and Y' are independently selected from $\text{--C(R}_5\text{)}_2\text{--O}$, --S-- , $\text{N(R}_5\text{)}$, or taken together form $\text{--C(R}_5\text{)=C(R}_5\text{)--}$, $\text{C(R}_5\text{)--N--}$, $\text{N=C(R}_5\text{)--}$, $\text{N(R}_5\text{)N(R}_5\text{)}$ or N=N-- is $\text{--C(R}_5\text{)--}$ and taken together with the carbon atom bearing the phenyl group forms a double bond;

Y' is $\text{--N(R}_5\text{)--}$;

~~Z is $C(R_5)_2$, O, S or $N(R_5)$, or forms a covalent single or double bond between X' and Y', or Z together with X' or Y' forms $C(R_5)=C(R_5)$, $C(R_5)=N$, $N=C(R_5)$, $N(R_5)-N(R_5)$ or $N=N$;~~

~~wherein when Z is O, S or $N(R_5)$, X' and Y' are $C(R_5)_2$;~~

~~when X is O, S or $N(R_5)$, X' is $C(R_5)_2$;~~

~~when Y is O, S or $N(R_5)$, Y' is $C(R_5)_2$; or~~

~~X or Y together with the carbon atom bearing the phenyl group form a double bond wherein which ever of X or Y forms part of the double bond is selected from $C(R_5)$ and N ;~~

R_1 is selected from hydrogen, C_{1-20} alkyl, C_{2-20} alkenyl, C_{2-20} alkynyl, $(A)_n C(O)R_6$, $(A)_n C(S)R_6$, $(A)_n S(O)R_6$, $(A)_n S(O)_2 R_6$, $(A)_n OR_7$, $(A)_n SR_7$, $(A)_n N(R_8)$, $(A)_n C(=NR_9)R_{10}$ and $(A)_n R_{11}$, or when X or Y together with the carbon atom bearing the phenyl group form a double bond, R_1 is absent;

R_2 and R_4 are independently selected from hydrogen, C_{1-3} alkyl and $(A)_m R_{12}$;

R_3 is selected from C_{1-3} alkyl, $(A)_m R_{12}$, $(A)_m$ aryl and $(A)_m$ heterocyclyl;

R_5 is selected from hydrogen, C_{1-20} alkyl, C_{2-20} alkenyl, C_{2-20} alkynyl, $(A)_n C(O)R_6$, $(A)_n C(S)R_6$, $(A)_n S(O)R_6$, $(A)_n S(O)_2 R_6$, $(A)_n OR_7$, $(A)_n SR_7$, $(A)_p N(R_8)$, $(A)_n C(=NR_9)R_{10}$ and $(A)_n R_{11}$;

R_6 is selected from hydrogen, C_{1-20} alkyl, C_{2-20} alkenyl, C_{2-20} alkynyl, OH, OC_{1-10} alkyl, OC_{2-10} alkenyl, OC_{2-10} alkynyl, $O(A)_q R_{11}$, SH, SC_{1-10} alkyl, SC_{2-10} alkenyl, SC_{2-10} alkynyl, $S(A)_q R_{11}$, $N(R_{13})_2$, $[NH-CH(R_{14})C(O)]_s-OH$, $[NH-CH(R_{14})C(O)]_s-OC_{1-3}$ alkyl, $[sugar]_s$ and $(A)_q R_{11}$;

R_7 is selected from hydrogen, C_{1-20} alkyl, C_{2-20} alkenyl, C_{2-20} alkynyl, $(A)_q R_{11}$, $C(O)H$, $C(O)C_{1-10}$ alkyl, $C(O)C_{2-10}$ alkenyl, $C(O)C_{2-10}$ alkynyl, $C(O)$ -aryl, $C(O)(A)_q R_{11}$, $C(O)_2 H$, $C(O)_2 C_{1-10}$ alkyl, $C(O)_2 C_{2-10}$ alkenyl, $C(O)_2 C_{2-10}$ alkynyl, $C(O)_2$ -aryl, $C(O)_2 (A)_q R_{11}$, $C(S)H$, $C(S)C_{1-10}$ alkyl, $C(S)C_{2-10}$ alkenyl, $C(S)C_{2-10}$ alkynyl, $C(S)$ -aryl, $C(S)(A)_q R_{11}$, $C(S)OH$,

C(S)OC₁₋₁₀alkyl, C(S)OC₂₋₁₀alkenyl, C(S)OC₂₋₁₀alkynyl, C(S)O-aryl, C(S)O(A)_qR₁₁, S(O)_tH, S(O)_tC₁₋₁₀alkyl, S(O)_tC₂₋₁₀alkenyl, S(O)_tC₂₋₁₀alkynyl, S(O)_t-aryl, S(O)_t(A)_qR₁₁, [C(O)CH(R₁₄)NH]_s-H, [C(O)CH(R₁₄)NH]_s-C₁₋₁₀alkyl, [C(O)CH(R₁₄)NH]_s-C₂₋₁₀alkenyl, [C(O)CH(R₁₄)NH]_s-C₂₋₁₀alkynyl, [C(O)CH(R₁₄)NH]_s-aryl, [C(O)CH(R₁₄)NH]_s-(A)_qR₁₁ and [sugar]_s;

each R₈ is independently selected from R₇ and NHC(=NR₁₅)NH₂;

R₉ is selected from hydrogen and C₁₋₆alkyl;

R₁₀ is selected from C₁₋₆alkyl, NH₂, NH(C₁₋₃alkyl), N(C₁₋₃alkyl)₂, OH, OC₁₋₃alkyl, SH and SC₁₋₃alkyl;

R₁₁ is selected from OH, OC₁₋₆alkyl, OC₁₋₃alkyl-O-C₁₋₃alkyl, O-aryl, O-heterocyclyl, O[C(O)CH(R₁₄)NH]_sH, [sugar]_s, SH, SC₁₋₆alkyl, SC₁₋₃alkyl-O-C₁₋₃alkyl, S-aryl, S-heterocyclyl, S[C(O)CH(R₁₄)NH]_sH, halo, N(R₁₅)₂, C(O)R₁₆, CN, C(R₁₇)₃, aryl and heterocyclyl;

R₁₂ is selected from OH, SH, NH₂, halo, NO₂, C(R₁₇)₃, OC(R₁₇)₃ and CN;

each R₁₃ is independently selected from hydrogen, C₁₋₆alkyl, C₂₋₆alkenyl, C₂₋₆alkynyl and (A)_qR₁₁;

R₁₄ is the characterising group of an amino acid;

each R₁₅ is independently selected from hydrogen, C₁₋₆alkyl, C₁₋₃alkoxyC₁₋₃alkyl, aryl and heterocyclyl;

R₁₆ is selected from C₁₋₃alkyl, OH, C₁₋₃alkoxy, aryl, aryloxy, heterocyclyl and heterocyclxyloxy;

each R₁₇ is independently selected from hydrogen and halogen;

A is optionally substituted methylene wherein when n > 1, any two adjacent A groups are optionally interrupted by -O-, -S- or -N(R₁₅)-;

where n is 0 or an integer selected from 1 to 20;

m is 0 or an integer selected from 1 to 3;

p is an integer selected from 1 to 20;

q is an integer selected from 1 to 10

s is an integer selected from 1 to 5;

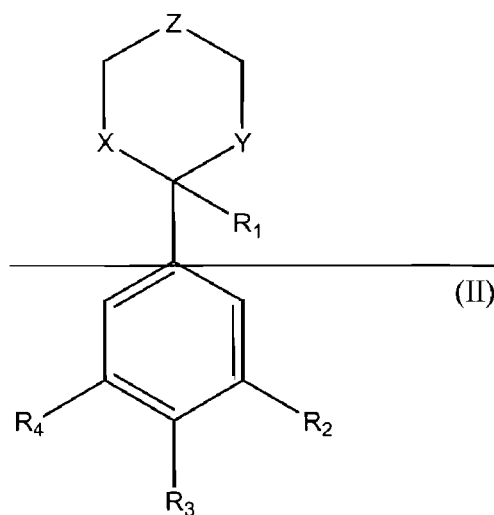
t is an integer selected from 1 or 2; and

wherein each alkyl, alkenyl, alkynyl, aryl and heterocyclyl may be optionally substituted.

2. (Currently Amended) A compound according to claim 1 ~~of formula (II)~~, wherein

Y is -CH-; and

X is -CH-; or a pharmaceutically acceptable salt or prodrug thereof



~~wherein X and Y are independently selected from O, S, N(R₅) and C(R₅)₂;~~

~~Z is C(R₅)₂ or is a covalent bond between adjacent methylene groups;~~

~~R₁ is selected from hydrogen, C₁₋₂₀alkyl, C₂₋₂₀alkenyl, C₂₋₂₀alkynyl, (A)_nC(O)R₆, (A)_nC(S)R₆, (A)_nS(O)R₆, (A)_nS(O)₂R₆, (A)_nOR₇, (A)_nSR₇, (A)_nN(R₈), (A)_nC(=NR₉)R₁₀ and (A)_nR₁₁;~~

R_2 and R_4 are independently selected from hydrogen, C_{1-3} alkyl and $(A)_mR_{12}$;

R_3 is selected from C_{1-3} alkyl, $(A)_mR_{12}$, $(A)_m$ aryl and $(A)_m$ heterocyclyl;

R_5 is selected from hydrogen, C_{1-20} alkyl, C_{2-20} alkenyl, C_{2-20} alkynyl, $(A)_nC(O)R_6$, $(A)_nC(S)R_6$, $(A)_nS(O)R_6$, $(A)_nS(O)_2R_6$, $(A)_nOR_7$, $(A)_nSR_7$, $(A)_pN(R_8)$, $(A)_nC(=NR_9)R_{10}$ and $(A)_nR_{11}$;

R_6 is selected from hydrogen, C_{1-20} alkyl, C_{2-20} alkenyl, C_{2-20} alkynyl, OH, OC_{1-10} alkyl, OC_{2-10} alkenyl, OC_{2-10} alkynyl, $O(A)_qR_{11}$, SH, SC_{1-10} alkyl, SC_{2-10} alkenyl, SC_{2-10} alkynyl, $S(A)_qR_{11}$, $N(R_{13})_2$, $[NH-CH(R_{14})C(O)]_s$ -OH, $[NH-CH(R_{14})C(O)]_s$ - OC_{1-3} alkyl, $[sugar]_s$ and $(A)_qR_{11}$;

R_7 is selected from hydrogen, C_{1-20} alkyl, C_{2-20} alkenyl, C_{2-20} alkynyl, $(A)_qR_{11}$, $C(O)H$, $C(O)C_{1-10}$ alkyl, $C(O)C_{2-10}$ alkenyl, $C(O)C_{2-10}$ alkynyl, $C(O)$ -aryl, $C(O)(A)_qR_{11}$, $C(O)_2H$, $C(O)_2C_{1-10}$ alkyl, $C(O)_2C_{2-10}$ alkenyl, $C(O)_2C_{2-10}$ alkynyl, $C(O)_2$ -aryl, $C(O)_2(A)_qR_{11}$, $C(S)H$, $C(S)C_{1-10}$ alkyl, $C(S)C_{2-10}$ alkenyl, $C(S)C_{2-10}$ alkynyl, $C(S)$ -aryl, $C(S)(A)_qR_{11}$, $C(S)OH$, $C(S)OC_{1-10}$ alkyl, $C(S)OC_{2-10}$ alkenyl, $C(S)OC_{2-10}$ alkynyl, $C(S)O$ -aryl, $C(S)O(A)_qR_{11}$, $S(O)_tH$, $S(O)_tC_{1-10}$ alkyl, $S(O)_tC_{2-10}$ alkenyl, $S(O)_tC_{2-10}$ alkynyl, $S(O)_t$ -aryl, $S(O)_t(A)_qR_{11}$, $[C(O)CH(R_{14})NH]_s$ -H, $[C(O)CH(R_{14})NH]_s$ - C_{1-10} alkyl, $[C(O)CH(R_{14})NH]_s$ - C_{2-10} alkenyl, $[C(O)CH(R_{14})NH]_s$ - C_{2-10} alkynyl, $[C(O)CH(R_{14})NH]_s$ -aryl, $[C(O)CH(R_{14})NH]_s$ -(A) $_qR_{11}$ and $[sugar]_s$;

each R_8 is independently selected from R_7 and $NHC(=NR_{15})NH_2$;

R_9 is selected from hydrogen and C_{1-6} alkyl;

R_{10} is selected from C_{1-6} alkyl, NH_2 , $NH(C_{1-3}alkyl)$, $N(C_{1-3}alkyl)_2$, OH, $OC_{1-3}alkyl$, SH and $SC_{1-3}alkyl$;

R_{11} is selected from OH, $OC_{1-6}alkyl$, $OC_{1-3}alkyl$ -O- $C_{1-3}alkyl$, O-aryl, O-heterocyclyl, $O[C(O)CH(R_{14})NH]_s$ -H, $[sugar]_s$, SH, $SC_{1-6}alkyl$, $SC_{1-3}alkyl$ -O- $C_{1-3}alkyl$, S-aryl, S-heterocyclyl, $S[C(O)CH(R_{14})NH]_s$ -H, halo, $N(R_{15})_2$, $C(O)R_{16}$, CN, $C(R_{17})_3$, aryl and heterocyclyl;

~~R₁₂ is selected from OH, SH, NH₂, halo, NO₂, C(R₁₇)₃, OC(R₁₇)₃ and CN;~~

~~each R₁₃ is independently selected from hydrogen, C₁₋₆alkyl, C₂₋₆alkenyl, C₂₋₆alkynyl and (A)_qR₁₄;~~

~~R₁₄ is the characterising group of an amino acid;~~

~~each R₁₅ is independently selected from hydrogen, C₁₋₆alkyl, C₁₋₃alkoxyC₁₋₃alkyl, aryl and heterocyclyl;~~

~~R₁₆ is selected from C₁₋₃alkyl, OH, C₁₋₃alkoxy, aryl, aryloxy, heterocyclyl and heterocyclyloxy;~~

~~each R₁₇ is independently selected from hydrogen and halogen;~~

~~A is optionally substituted methylene wherein when n > 1, any two adjacent A groups are optionally interrupted by O, S or N(R₁₅);~~

~~where n is 0 or an integer selected from 1 to 20;~~

~~m is 0 or an integer selected from 1 to 3;~~

~~p is an integer selected from 1 to 20;~~

~~q is an integer selected from 1 to 10~~

~~s is an integer selected from 1 to 5;~~

~~t is an integer selected from 1 or 2; and~~

~~wherein each alkyl, alkenyl, alkynyl, aryl and heterocyclyl may be optionally substituted.~~

3. (Currently Amended) A compound according to claim 1 or 2 wherein R₅ is C₁₋₂₀alkyl

~~X is O, S, NH or CH₂;~~

~~Y is O, S or NR₅;~~

~~Z forms a covalent bond between adjacent methylene groups;~~

~~R₁ is selected from C₁₋₂₀alkyl, C₁₋₂₀alkenyl, O-(A)_q-C₁₋₆alkyl, O-(A)_q-heterocyclyl, O-(A)_q-sugar, O-(A)_q-O[C(O)CH(R₁₄)NH]_s-H, (A)_nOH, (A)_nOC₁₋₂₀alkyl, (A)_nOC₁₋₂₀alkenyl, (A)_nOC(O)C₁₋₂₀alkyl, (A)_nOC(O)C₁₋₂₀alkenyl, (A)_nOC(O)aryl, (A)_nO[C(O)CH(R₁₄)NH]_s-H, (A)_nO[sugar]_s, (A)_nNHC₁₋₂₀alkyl, (A)_nN(C₁₋₂₀alkyl)₂, (A)_nNHC₁₋₂₀alkenyl, (A)_nN(C₁₋₂₀alkenyl)₂, (A)_nNHC(O)C₁₋₂₀alkyl, (A)_nNHC(O)C₁₋₂₀alkenyl, (A)_nNHC(O)aryl, (A)_nNH[C(O)CH(R₁₄)NH]_s-H, (A)_nNH[sugar]_s, (A)_nSO₃H, (A)_nSO₃C₁₋₂₀alkyl, (A)_nSO₃C₁₋₂₀alkenyl, (A)_nC(O)C₁₋₂₀alkyl, (A)_nC(O)C₁₋₂₀alkenyl, (A)_nCO₂H, (A)_nCO₂C₁₋₂₀alkyl, (A)_nCO₂C₁₋₂₀alkenyl, (A)_nC(O)NHC₁₋₂₀alkyl, (A)_nC(O)N(C₁₋₂₀alkyl)₂, (A)_nC(O)NHC₁₋₂₀alkenyl, (A)_nC(O)N(C₁₋₂₀alkenyl)₂, (A)_nC(O)[NHCH(R₁₄)C(O)]_s-OH, (A)_nC(O)[sugar]_s; wherein A is methylene optionally substituted one or two times with a group that is independently selected from C₁₋₆alkyl, C₂₋₆alkenyl, C₂₋₆alkynyl, halogen, OH, OC₁₋₆alkyl, CO₂H, CO₂C₁₋₃alkyl, NH₂, NHC₁₋₃alkyl, N(C₁₋₃alkyl)₂, CN, NO₂, aryl or heterocyclyl; R₁₄ is the characterising group of an amino acid, n is 0 or an integer from 1 to 20 and s is an integer from 1 to 5;~~

~~R₂ is hydrogen, C₁₋₃alkyl, OH, SH, NH₂, NO₂, CF₃, halo or CN;~~

~~R₃ is hydrogen, C₁-C₃alkyl, (CH₂)_mNH₂, (CH₂)_mOH, (CH₂)_mCF₃, (CH₂)_mSH or a 5 or 6 membered heterocyclic group, wherein m is 0 or an integer from 1 to 3;~~

~~R₄ is hydrogen, C₁₋₃alkyl, OH, SH, NH₂, NO₂, CF₃, halo or CN;~~

~~A is unsubstituted methylene or mono-substituted methylene.~~

4. (Currently Amended) A compound according to any one of claims 1 to 3 ~~claim 2~~ wherein

~~X is O, S, NH;~~

~~Y is O, S or N(R₅);~~

~~Z forms a covalent bond between adjacent methylene groups;~~

~~R₁ is C₁-C₂₀alkyl, C₂-C₂₀alkenyl, C₂-C₂₀alkynyl, (A)_nC(O)R₆, (A)_nC(S)R₆, (A)_nS(O)R₆, (A)_nS(O)₂R₆, (A)_nOR₇, (A)_nSR₇, (A)_nN(R₈)₂, (A)_nC(=NR₉)R₁₀ or (A)_nR₁₁ where n, R₆, R₇, R₈, R₉, R₁₀ and R₁₁ are defined above;~~

~~R₂ is hydrogen, methyl, OH, OCH₃, SH, NH₂, NO₂, CF₃, halo or CN;~~

~~R₃ is C₁₋₃alkyl or OC(R₁₇)₃, (CH₂)_mNH₂, (CH₂)_mOH, (CH₂)_mSH or heterocyclyl where m is defined above;~~

~~R₄ is hydrogen, methyl, OH, OCH₃, SH, NH₂, NO₂, CF₃, CF₃, halo or CN.~~

5. (Currently Amended) A compound according to ~~claim 2~~ claim 1 wherein the compound is 4-(4-Methoxyphenyl)-1-(3-methylbutyl)-1H-pyrazole

~~X is O or NH;~~

~~Y is O or N(R₁₈) where R₁₈ is selected from hydrogen, C₁₋₂₀alkyl, C₁₋₂₀alkenyl, C₁₋₂₀alkynyl, C₁₋₂₀alkenyl and (CH₂)_nR₁₁ where R₁₁ and n are defined above;~~

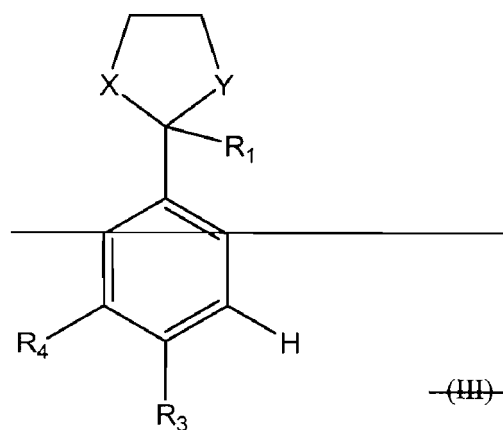
~~Z forms a covalent bond between adjacent methylene groups;~~

~~R₂ is hydrogen, halomethyl, OH, OCH₃, SH, NH₂, NO₂ or CN;~~

~~R₃ is hydrogen, C₁₋₃alkyl, (CH₂)_mNH₂, (CH₂)_mOH or (CH₂)_mCF₃ or heterocyclyl where m is defined above;~~

~~R₄ is hydrogen, methyl, OH, OCH₃, SH, NH₂, NO₂ or CN.~~

6. (Currently Amended) A compound according to claim 1 wherein the compound is 1-(3-Methylbutyl)-4-(4-methylphenyl)-1H-pyrazole of formula (III)



wherein

~~X is O or NH;~~

~~Y is O or N(R₁₈) where R₁₈ is defined above;~~

~~R₃ is hydrogen, NH₂, OH;~~

~~R₄ is hydrogen, methyl, OCH₃, or OH.~~

7-39. (Cancelled)

40. (Previously Presented) A pharmaceutical composition comprising a compound according to claim 1 and a pharmaceutically acceptable carrier, diluent or excipient.

41. (Original) A pharmaceutical composition according to claim 40 further comprising a glucocorticoid.

42-46. (Cancelled)